

## SURVEY TECHNICIAN II

### DEFINITION

To perform routine technical and paraprofessional land surveying support work in the field or office; and perform related duties as assigned.

### DISTINGUISHING CHARACTERISTICS

This is the full journey level class in the Survey Technician series and is distinguished from the Survey Technician I level by the ability to perform the full range of duties assigned with only occasional instruction or assistance as unusual or unique situations arise. Positions in this class are flexibly staffed and are normally filled by advancement from the level I, or by outside candidates having prior experience.

### SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from assigned supervisor.

### ESSENTIAL FUNCTIONS – Functions may include, but are not limited to, the following:

Assist the Assistant Surveyor and the Land Surveyor in completing a full range of field and office tasks, including data collection, boundary surveys, horizontal and vertical control surveys (both GPS and conventional), photogrammetric surveys, and construction staking.

Assist in reviewing work performed by other Survey Section staff.

Under direct supervision, interpret and write less complex legal descriptions and deeds.

Identify complex surveying problems encountered in the field, with particular emphasis on construction staking; utilizes office and field computers and data collectors.

Assist in researching and compiling information necessary to conduct surveys from notes, maps, legal descriptions, deeds and other surveying documents.

Assist in reviewing deeds and easements, traverse closures, adjustment of traverses.

Maintain records, sketches, and maps of work and data secured by survey parties; verify the accuracy of data by calculations and field computations; use and maintain all survey equipment.

Build and maintain positive working relationships with co-workers, other City employees and the public using principles of good customer service.

Performs related duties as assigned.

### MINIMUM QUALIFICATIONS

#### Knowledge of:

Basic mathematics covering geometry, trigonometry, and algebra.

Fundamentals and laws governing land surveying theory and practice.

California Coordinate System "NAD83" and "NAVD88", the Land Surveyor's Act, the Subdivision Map Act, and Professional Board Rules.

Preliminary designs, construction, location of property and right-of-way boundaries, land divisions, control and geodetic surveying.

Computer data plotting and Data Terrain Model (DTM) compilation.

Subdivision, Parcel and Record of Survey maps.

English usage, spelling, grammar, and punctuation.

Computer equipment and software applications related to assignment

#### Ability to:

Use survey equipment.

Read and follow instructions.

Perform simple surveying calculations.

Make simple drawings, sketches, and notes.

Perform minor field calculations and make routine surveying decisions.

Review and interpret surveyor's maps.

Operate computer equipment and software applications related to assignment.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of work.

Work with various cultural and ethnic groups in a tactful and effective manner.

### Experience and Training

Any combination of education and/or experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

#### Experience:

Two years of responsible experience in field survey, drafting, or related civil engineering work.

#### Training:

Equivalent to completion of the twelfth grade supplemented by college coursework in engineering, mathematics, drafting, surveying, computer science/CADD, or related field. An Associate's Degree is desirable.

### License or Certificate

Possession of a valid California driver's license.

Possession of the LSIT (Land Surveyor-in-Training) Certificate is highly desirable.

### PHYSICAL DEMANDS

On a continuous basis walk, stand, bend, crouch, or stoop, sit for varying periods of time; must possess sufficient strength, stamina, agility, and dexterity to manipulate, operate, lift and carry objects, tools, and materials or equipment for field inspections, materials testing, surveying, and office work. Must possess ability to: read and write reports, correspondence, and instructions; verbally communicate in person, over a radio or telephone; see in the normal vision range with or without correction; hear in the normal range with or without correction.

### WORKING ENVIRONMENT

Work is performed both outdoors and indoors; the performance of fieldwork tasks requires exposure to a variety of traffic and weather conditions with possible exposure to hazardous materials; indoor work is performed in a carpeted and air-conditioned office environment with fluorescent lighting and moderate noise level. May operate equipment, tools, vehicles under daylight and evening

conditions. Work is frequently disrupted by the need to respond to in-person and telephone inquiries.

4/05